ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/03 Date Received: 10/02/03

Project: Metro Self Monitor, PO# M102877, F&BI 310019

Date Extracted: 10/21/03 Date Analyzed: 10/22/03

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

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Sample ID	<u>Chromium</u>	Copper	<u>Nickel</u>	<u>Zinc</u>
Laboratory ID	원하다 사람은 얼마 된			
3.5.000==				
M102877	0.37	0.42	0.38	0.08
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Method Blank	< < < < < < < < < < < < < < < < < < < <	< 0.05	< 0.10	< 0.05
Memou Diank		~0.00	~0.10	~0.05

ENVIRONMENTAL CHEMISTS

Date of Report: 11/03/03 Date Received: 10/02/03

Project: Metro Self Monitor, PO# M102877, F&BI 310019

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 310151-01 (Duplicate)

	Mar (M.M. Mari				Relative		
		Reporting	Sample	Duplicat	e Percent	Acceptance	
	Analyte	Units	Result	Result	Difference	Criteria	
Ö	Chromium	mg/L (ppm)	0.44	0.44	0	0-20	
	Copper	mg/L (ppm)	0.87	0.84	4	0-20	
	Nickel	mg/L (ppm)	0.46	0.46	0	0-20	
	Zinc	mg/L (ppm)	0.09	0.12	a	0-20	

Laboratory Code: 310151-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	ery Acceptance
Analyte	Units	Level	Result	MS	Criteria
Chromium	mg/L (ppm)	2	0.44	85	80-120
Copper	mg/L (ppm)	2	0.87	96	80-120
Nickel	mg/L (ppm)	4	0.46	84	80-120
Zinc	mg/L (ppm)	2	0.09	87	80-120

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recovery	% Recovery	Acceptance	RPD	
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 2	0)
Chromium	mg/L (ppm)	2	106	105	80-120	1	
Copper	mg/L (ppm)	2	110	108	80-120	2	
Nickel	mg/L (ppm)	4	107	105	80-120	2	
Zinc	mg/L (ppm)	2	109	108	80-120	1	

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

SAMPLE CHAIN OF CUSTODY Poet Prest Turnancound Time Sample To Sample Type SAMPLE CHAIN OF CUSTODY SAMPLE CHAIN OF CUSTODY TURNANCOUND TIME Sample To Rush Rush charges authorized by: SAMPLE DISPOSAL Dispose after 30 days REMARKS Sample To Date Time Sample Type Containers # of Containers # o										4						
Sample ID Lab ID Date TURNAROUND TIME PROJECT NAME/NO. PO # REMARKS SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions Notes Notes	310019			SAN	IPLE CHAI	N OF C	USI	OI	YC			C , r	4 ***********	10/0	02/03	A
Sample ID Lab ID Date TURNAROUND TIME PROJECT NAME/NO. REMARKS SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions Notes Notes		-11		ſ	SAMPLESS (signature)						Section Control of the Control of th				-
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	Sample ID	Lab ID	Date	Time	Sample Type		TPH-D	'PH-Ga	TEX by	OCs by	VOCs b	1600			Notes	
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Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

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Relinquished by:
Received by:
Relinquished by:

SIGNATURE

	PRINT NAME	COMPANY	DATE	TIME
>	G. Thompson.	ACN	10/2/03	13370
	Nhan Phan	‡ & BI	10/02/03	1:35 P
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 3, 2003

DUPLICATE COPY

INVOICE # 03ACU1103-1

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M102877, F&BI 310019 - Results of testing requested by Gerry Thompson for material submitted on October 2, 2003.

FEDERAL TAX ID # (b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 3, 2003

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on October 2, 2003 from the Metro Self Monitor, PO# M102877, F&BI 310019 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlense Morrow

Charlene Morrow

Chemist

Enclosures ACU1103R.DOC